

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2010 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin***

<b>RD2031</b>	Overall LMA Rating	Total LMA Miles				
<b>Reclamation District No. 2031 Elliot</b>	<b>A</b>	<b>13.19</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.10		0.10	0.76%		
Trim / Thin Trees	0.61		0.61	4.63%		
Encroachments	0.02		0.02	0.15%	0.77	0.13
Crown Surface / Depressions / Rutting	0.03		0.03	0.23%		
<i>Supplemental</i>						
DWR Erosion Survey	0.04		0.04	0.30%		
<i>LMA Totals:</i>	0.80	0.00	0.80	6.07%	0.77	0.13

  

<b>Unit No. 01 Stanislaus River</b>	Overall Unit Rating	Total Unit Miles				
	<b>A</b>	<b>7.15</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.09		0.09	1.26%		
Trim / Thin Trees	0.01		0.01	0.14%		
Encroachments	0.02		0.02	0.28%	0.77	0.11
Crown Surface / Depressions / Rutting	0.03		0.03	0.42%		
<i>Supplemental</i>						
DWR Erosion Survey	0.04		0.04	0.56%		
<i>Unit Totals:</i>	0.19	0.00	0.19	2.66%	0.77	0.11

  

<b>Unit No. 02 San Joaquin River</b>	Overall Unit Rating	Total Unit Miles				
	<b>M</b>	<b>6.04</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.01		0.01	0.17%		
Trim / Thin Trees	0.60		0.60	9.93%		
Encroachments						0.02
<i>Unit Totals:</i>	0.61	0.00	0.61	10.10%	0.00	0.02

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2010 Levee Inspection Results**

**Reclamation District No. 2031 Elliot**

---

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections  
Unit Cover Sheet  
Fall 2010 Levee Inspection Results  
Reclamation District No. 2031 Elliot**

Waterway			Bank	Unit Miles
Unit No. 01 Stanislaus River			Left	7.15
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/30/2010		9/23/2010	
DWR Inspector	John Paasch		John Paasch	
Accompanied By	Bob Buckmaster		Bob Buckmaster	
	Billy Lyons		Billy Lyons	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 2031 Elliot**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River				Left	7.15	11/23/2010 11/23/2010	John Paasch

  

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.07	Earthen Levee	Encroachments	WS	PO	Fences Inspector Comments: Wooden and steel livestock fence and debris limit access to slope.	37.710001 ° -121.155391 °	37.709871 ° -121.156568 °	963 Y
2	0.06	0.42	Earthen Levee	Encroachments	LS	PO	Crops Inspector Comments: Crops encroaches on to levee slope.	37.709793 ° -121.156592 °	37.705006 ° -121.158551 °	3
3	0.07	0.07	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Brush and small tree on waterside slope.	37.709871 ° -121.156568 °	37.709871 ° -121.156568 °	964
4	0.40	0.40	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage. Inspector Comments: Repair attempted but road surface contains numerous potholes.	37.705398 ° -121.158288 °	37.705398 ° -121.158288 °	966
5	0.47	0.50	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 10/19/2010: No significant changes observed on site. Sloughing of the bank is occurring adjacent to an irrigation outlet structure. There is moderate to heavy vegetation along the bank that is well established. Broken chunks and slabs of concrete are used as rip rap and line the outside of the irrigation outlet structure. However, much of the rip rap along the slope is sloughing and could possibly lead to future slope instability. 08/05/2010: Recommended as a local maintenance issue, per CLRO. [2010 SiteID: RD2031U01RM0.48]	37.704740 ° -121.159140 °	37.704740 ° -121.159140 °	1 Y
6	0.52	0.52	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.704050 ° -121.159578 °	37.704050 ° -121.159578 °	2
7	0.55	0.65	Earthen Levee	Encroachments	LS	CO	Buildings Inspector Comments: Corrals and house on levee slope and crown.	37.703626 ° -121.159714 °	37.702648 ° -121.160700 °	969 Y
8	0.64	0.71	Earthen Levee	Encroachments	LS	PO	Fences	37.702814 ° -121.160562 °	37.701875 ° -121.161670 °	4
9	0.64	0.64	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	37.702766 ° -121.160598 °	37.702766 ° -121.160598 °	970
10	0.65	0.65	Earthen Levee	Animal Control	CR	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.702677 ° -121.160676 °	37.702677 ° -121.160676 °	5
11	0.70	0.75	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.702138 ° -121.161329 °	37.701566 ° -121.161852 °	971
12	0.75	0.78	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	37.701566 ° -121.161852 °	37.701178 ° -121.162086 °	972

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected/Rated  
C : Corrected  
W : Watch/Monitor

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 2031 Elliot**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River				Left	7.15	11/23/2010 11/23/2010	John Paasch

  

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
13	0.75	0.75	Earthen Levee	Encroachments	WS	C	Debris Inspector Comments: Corrugated pipe, tires and prunings on levee slope.	37.701562 ° -121.161873 °	37.701562 ° -121.161873 °	7
14	0.89	0.89	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact.	37.699980 ° -121.163368 °	37.699980 ° -121.163368 °	6
15	1.05	1.05	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.699167 ° -121.166042 °	37.699167 ° -121.166042 °	9
16	1.17	1.17	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Tall weeds around risers obstructs visibility.	37.698843 ° -121.168129 °	37.698843 ° -121.168129 °	10
17	1.27	1.27	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Irrigation intake pipe.	37.699536 ° -121.169924 °	37.699536 ° -121.169924 °	11 Y
18	1.27	1.27	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Improvements made.	37.699534 ° -121.169922 °	37.699534 ° -121.169922 °	977 Y
19	1.54	1.55	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: This vegetation is Hemlock rather than Elderberry.	37.699317 ° -121.173762 °	37.699242 ° -121.173880 °	8
20	1.64	1.64	Earthen Levee	Encroachments	LS	M	Tree or limb Inspector Comments: Almond tree on levee slope.	37.698308 ° -121.175206 °	37.698308 ° -121.175206 °	12
21	1.73	1.73	Earthen Levee	Encroachments	LS	M	Tree or limb	37.697619 ° -121.176694 °	37.697619 ° -121.176694 °	13
22	1.88	1.88	Interior Drainage & Piping Systems	Culverts: Inlets / Outlets	WS	A	Inspector Comments: Drainage culvert not in use.	37.695684 ° -121.177522 °	37.695684 ° -121.177522 °	14
23	2.35	2.35	Earthen Levee	Encroachments	LS	PO	Crops Inspector Comments: Turnouts for this field at levee slope.	37.689221 ° -121.178980 °	37.689221 ° -121.178980 °	16
24	2.47	2.47	Earthen Levee	Encroachments	WS	W	Pipe	37.687953 ° -121.180244 °	37.687953 ° -121.180244 °	15
25	2.52	2.52	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	37.687499 ° -121.181018 °	37.687499 ° -121.181018 °	20 Y
26	3.11	3.11	Earthen Levee	Encroachments	WS	W	Pipe	37.688296 ° -121.190890 °	37.688296 ° -121.190890 °	21
27	3.29	3.29	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Irrigation intake	37.690556 ° -121.192451 °	37.690556 ° -121.192451 °	17
28	3.55	3.55	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Drain to channel	37.690864 ° -121.195990 °	37.690864 ° -121.195990 °	24

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected/Rated  
C : Corrected  
W : Watch/Monitor

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 2031 Elliot**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River				Left	7.15	11/23/2010 11/23/2010	John Paasch

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
29	3.58	3.70	Earthen Levee	Encroachments	LS	C	Material Inspector Comments: Sand	37.690675 ° -121.196501 °	37.689892 ° -121.198324 °	980
30	3.64	3.64	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Irrigation intake.	37.690280 ° -121.197447 °	37.690280 ° -121.197447 °	28
31	3.71	3.71	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Irrigation intake on waterside berm.	37.689783 ° -121.198562 °	37.689783 ° -121.198562 °	29
32	3.72	3.72	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Irrigation intake	37.689742 ° -121.198695 °	37.689742 ° -121.198695 °	19 Y
33	3.73	3.73	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.689716 ° -121.198811 °	37.689716 ° -121.198811 °	30
34	4.03	4.03	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Drainage outlet	37.690937 ° -121.203319 °	37.690937 ° -121.203319 °	31
35	4.33	4.33	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.687362 ° -121.206151 °	37.687362 ° -121.206151 °	22
36	4.39	4.43	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.686971 ° -121.207385 °	37.686585 ° -121.207802 °	32 Y
37	4.45	4.45	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Two irrigation intakes	37.686376 ° -121.207935 °	37.686376 ° -121.207935 °	23
38	4.60	4.80	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Poplars and othe landscaping at levee toe.	37.684474 ° -121.208447 °	37.682167 ° -121.209098 °	982
39	5.35	5.35	Earthen Levee	Encroachments	WS	PO	Landscaping Inspector Comments: Wild rose	37.678363 ° -121.217375 °	37.678363 ° -121.217375 °	25
40	5.41	5.41	Earthen Levee	Encroachments	LS	CO	Landscaping Inspector Comments: Wild Rose Bushes	37.677641 ° -121.217499 °	37.677641 ° -121.217499 °	983
41	5.68	5.68	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Mostly Willow	37.673718 ° -121.217609 °	37.673718 ° -121.217609 °	984
42	5.72	5.72	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Wild Rose bushes	37.673158 ° -121.217766 °	37.673158 ° -121.217766 °	985
43	5.94	5.94	Earthen Levee	Encroachments	LS	W	Pipe Inspector Comments: MID installation	37.670341 ° -121.219224 °	37.670341 ° -121.219224 °	26
44	6.54	6.54	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Tall vegetation on landside toe and slope. Limited access due to fence and soft levee material.	37.667266 ° -121.228441 °	37.667266 ° -121.228441 °	33

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected/Rated  
C : Corrected  
W : Watch/Monitor



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	11/23/2010 11/23/2010	John Paasch

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.07
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Fall 2009 photo looking upstream at beginning of unit 1. Water side to the left.

jpaasch\_f\_20100923\_223.jpg



Levee Mile Report Line	5
Start Levee Mile	0.47
End Levee Mile	0.50
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking downstream of the site. Note the irrigation outlet is operational.

SJR2010\_RM0.48U1LM0.48LBa.jpg



Levee Mile Report Line	5
Start Levee Mile	0.47
End Levee Mile	0.50
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking downstream of the site.

SJR2010\_RM0.48U1LM0.48LBb.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected/Rated

C : Corrected  
W : Watch/Monitor

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	11/23/2010 11/23/2010	John Paasch

Levee Mile Report Line	5
Start Levee Mile	0.47
End Levee Mile	0.50
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

View of the current condition of the levee slope just above the irrigation outlet.

SJR2010\_RM0.48U1LM0.48LBc.jpg



Levee Mile Report Line	5
Start Levee Mile	0.47
End Levee Mile	0.50
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of the site.

SJR2010\_RM0.48U1LM0.48LBd.jpg



Levee Mile Report Line	7
Start Levee Mile	0.55
End Levee Mile	0.65
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Fall 2009 photo of livestock pens and house on landside slope.

jpaasch\_f\_20100923\_225.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected/Rated

C : Corrected  
W : Watch/Monitor



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	11/23/2010 11/23/2010	John Paasch

Levee Mile Report Line	17
Start Levee Mile	1.27
End Levee Mile	1.27
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Irrigation intake pump and pipe.

jpaasch\_f\_20100923\_221.jpg



Levee Mile Report Line	18
Start Levee Mile	1.27
End Levee Mile	1.27
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Vegetation on waterside slope and crown.

jpaasch\_f\_20100923\_226.jpg



Levee Mile Report Line	25
Start Levee Mile	2.52
End Levee Mile	2.52
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Acceptable vegetation maintenance on levee slopes.

jpaasch\_f\_20101124\_609.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected/Rated

C : Corrected  
W : Watch/Monitor

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	11/23/2010 11/23/2010	John Paasch

Levee Mile Report Line	32
Start Levee Mile	3.72
End Levee Mile	3.72
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Irrigation intake on waterside berm.

jpaasch\_f\_20100923\_222.jpg



Levee Mile Report Line	36
Start Levee Mile	4.39
End Levee Mile	4.43
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Obstructive vegetation on levee slope and within 10' of levee toe.

jpaasch\_f\_20101124\_610.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing      W : Watch/Monitor  
U : Unacceptable      N : Not Inspected/Rated

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2010 Levee Inspection Results**

**Reclamation District No. 2031 Elliot**

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River			Right	6.04
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>M</b>	
Date of Inspection	3/30/2010		9/23/2010	
DWR Inspector	John Paasch		John Paasch	
Accompanied By	Mr. Bob Buckmaster RD 2031		Mr. Bob Buckmaster RD 2031	
	Billy Lyons		Billy Lyons	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 2031 Elliot**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River				Right	6.04	11/23/2010 11/23/2010	John Paasch

  

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.22	0.22	Earthen Levee	Encroachments	LS	W	Pipe	37.658843 ° -121.234271 °	37.658843 ° -121.234271 °	3 Y
2	1.36	1.36	Earthen Levee	Encroachments	LS	CO	Buildings	37.648898 ° -121.221621 °	37.648898 ° -121.221621 °	4 Y
3	1.45	1.45	Earthen Levee	Encroachments	LS	CO	Landscaping Inspector Comments: Wild Rose Bush on landside slope.	37.647708 ° -121.220873 °	37.647708 ° -121.220873 °	965 Y
4	3.00	3.60	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level. Inspector Comments: Obstructive trees and vegetation along highway are on the landside slope of the levee.	37.637626 ° -121.207191 °	37.638301 ° -121.196465 °	966
5	3.89	3.89	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Tall grass at toe should be removed for visibility.	37.637715 ° -121.191516 °	37.637715 ° -121.191516 °	967
6	3.97	3.97	Earthen Levee	Encroachments	WS	C	Landscaping Inspector Comments: Pepper trees are on the waterside slope. Trimmed for visibility.	37.636629 ° -121.191150 °	37.636629 ° -121.191150 °	968
7	4.33	4.37	Supplemental	DWR Erosion Survey	WS	W	Inspector Comments: 10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events.[2010 SiteID: RD2031U02RM78.7]	37.631716 ° -121.189370 °	37.631716 ° -121.189370 °	1 Y
8	4.57	4.57	Interior Drainage & Piping Systems	Culverts: Inlets / Outlets	WS	A	Inspector Comments: Drainage culvert has been abandoned.	37.630871 ° -121.185502 °	37.630871 ° -121.185502 °	2

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected/Rated  
C : Corrected  
W : Watch/Monitor



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	6.04	11/23/2010 11/23/2010	John Paasch

Levee Mile Report Line	1
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Drainage discharge pumps and housing on steep waterside slope.

jpaasch\_f\_20101124\_611.jpg



Levee Mile Report Line	2
Start Levee Mile	1.36
End Levee Mile	1.36
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Small structure on levee slope.

jpaasch\_f\_20100923\_229.jpg



Levee Mile Report Line	3
Start Levee Mile	1.45
End Levee Mile	1.45
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Wild rose on levee slope.

jpaasch\_f\_20100923\_230.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected/Rated

C : Corrected  
W : Watch/Monitor



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	6.04	11/23/2010 11/23/2010	John Paasch

Levee Mile Report Line	7
Start Levee Mile	4.33
End Levee Mile	4.37
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

From the berm looking upstream. Note the perpendicular approach of incoming flow onto the bank.

SJR2010\_RM78.70U2LM4.35RBa.jpg



Levee Mile Report Line	7
Start Levee Mile	4.33
End Levee Mile	4.37
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of adjacent bank affected by erosion.

SJR2010\_RM78.70U2LM4.35RBb.jpg



Levee Mile Report Line	7
Start Levee Mile	4.33
End Levee Mile	4.37
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of scouring.

SJR2010\_RM78.70U2LM4.35RBc.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
N : Not Inspected/Rated

C : Corrected  
W : Watch/Monitor

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 2031 Elliot**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	6.04	11/23/2010 11/23/2010	John Paasch

Levee Mile Report Line	7
Start Levee Mile	4.33
End Levee Mile	4.37
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

SJR2010\_RM78.70U2LM4.35RBd.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing      W : Watch/Monitor  
U : Unacceptable      N : Not Inspected/Rated